

CLASS SPECIFICATION
County of Fairfax, Virginia

CLASS CODE: 5117 **TITLE:** ENGINEERING TECHNICIAN III **GRADE:** S-21

DEFINITION:

Under general supervision, performs highly technical and advanced engineering work of a paraprofessional nature in the field, office, or laboratory, exercising independent judgment and initiative; and performs related work as required.

DISTINGUISHING CHARACTERISTICS OF THE CLASS:

This class is distinguished from the Engineering Technician II class in that it is highly advanced paraprofessional engineering work, drafting and designing plans, and resolving problems. Employees in this class participate in final inspection and review of plans and projects, and often supervise subordinates.

ILLUSTRATIVE DUTIES:

Performs highly technical work in design, research or construction;
Drafts plans and specifications;
Assists an engineer in assuring compliance with laws and codes by reviewing specifications, plans, or engineering reports;
Inspects facilities;
Develops estimates and specifications for design;
Selects, plans, designs, constructs, and maintains equipment and systems;
Researches and responds to complaints;
Investigates problems or malfunctions, and recommends solutions or corrective actions;
Writes detailed maintenance or operations procedures;
Participates in the final inspection or review of plans or projects;
Prepares and supervises preventative maintenance procedures;
Participates in contract administration and negotiation;
May lead or supervise lower level technicians;
Writes reports.

REQUIRED KNOWLEDGE, SKILLS, AND ABILITIES:

Thorough knowledge of the principles and practices of the appropriate field of engineering work;
Considerable knowledge of County, State and Federal laws, codes and regulations pertaining to the appropriate technical field;
Knowledge of the basic principles of physics and/or advanced mathematics and their application to project completion and problem solving;
Thorough knowledge of the methods and equipment used in engineering construction and the inspection methods used in reviewing such work;
Ability to prepare accurate drawings and maps;
Ability to make accurate computations and neat, accurate field notes;
Ability to program and/or use data processing equipment;
Ability to collect, compile, and interpret research data;
Ability to communicate effectively, orally and in writing;
Ability to train and supervise subordinates;
Ability to deal with the public and investigate complaints.

EMPLOYMENT STANDARDS:

Any combination of education, experience, and training equivalent to:

High school graduation or a G.E.D. issued by a state department of education; PLUS
Four years of non-professional engineering work, as defined by the area to which assigned.

CERTIFICATES AND LICENSES REQUIRED:

None.

NECESSARY SPECIAL REQUIREMENTS:

ICC Permit Technician Certificate required for positions assigned to the Permits Division.

REVISED:

March 13, 2003

REVISED AND RETITLED:

November 16, 1992

ESTABLISHED:

February 25, 1985